AN - 1998-269805 [24]
AP - RU19940012998 19940412
CPY - PROI
DC - D16 E14
FS - CPI
IC - C12N1/38 ; C12P21/00
IN - IPATOVA T V; MAKSIMOVA G N; VINAROV A YU
MC - D05-C13 E10-B03B E10-C03 E11-M
M3 - [01] G011 G100 H5 H541 H6 H602 H641 H8 J0 J011 J1 J171 M280 M311 M321 M342 M349 M381 M391 M414 M510 M520 M531 M540 M630 M771 M782 M903 M904 Q233 R036; 9824-D5201-U
- [02] H1 H103 H181 H4 H403 H483 H8 M280 M312 M323 M332 M342 M383 M393 M416 M620 M650 M771 M782 M903 M904 Q233 R036; 9824-D5201-U
PA - (PROI ) PROTEINS BIOSYNTHESIS RES INST
PN - RU2092560 C1 19971010 DW199824 C12P21/00 007pp
PR - RU19940012998 19940412
XA - C1998-083992
XIC - C12N-001/38 ; C12P-021/00
AB - RU2092560 Preparation of biomass is based on growing microorganisms under conditions of mixing and aeration, on culture medium containing sources of nitrogen, carbon, necessary mineral salts and also a growth stimulant for microorganisms cells. The latter consists of N-tris-(2-oxyethyl) ammonium salt of ortho-chlorophenoxyacetic acid, in amount 1 multiply 10-11-1 multiply 10-8 wt.%, and gibbersib (a natural complex of gibberellins, produced by fungus Fusarium moniliforma, in form of powder) (I), in amount 1 multiply 10-12-1 multiply 10-8 wt.%.
- Growing of microorganisms is conducted in a continuous or periodic regime, with mixing and aeration of medium with an oxygen-containing gas, e.g. air, in the presence of a nitrogen source in the form of ammonium phosphates or sulphates, ammonium chloride or ammonia solution, a phosphorus source in the form of e.g. phosphates, mineral salts of potassium and magnesium, and microelements in the form of e.g. salts of iron, zinc and manganese. The carbon source can be e.g. refined and non-refined paraffins, oil distillates, natural gas, alcohols, fatty acids and carbohydrates, and various types of yeast, e.g. from Candida family, are used as microorganisms.
- USE - The method is used in microbiological industry as a method of biomass production by growing microorganisms in presence of chemical growth stimulants.
- ADVANTAGE - The method increases the growth of biomass and reduces consumption of starting materials.
- (Dwg.0/0)
CN - 9824-D5201-U
IW - BIOMASS PRODUCE GROWTH STIMULATING FORM N TRI OXY ETHYL AMMONIUM SALT ORTHO CHLOROPHENOXY ACETIC ACID SPECIFIED ORGANIC PRODUCT
IKW - BIOMASS PRODUCE GROWTH STIMULATING FORM N TRI OXY ETHYL AMMONIUM SALT ORTHO CHLOROPHENOXY ACETIC ACID SPECIFIED ORGANIC PRODUCT
INW - IPATOVA T V; MAKSIMOVA G N; VINAROV A YU
NC - 001
OPD - 1994-04-12

ORD - 1997-10-10
PAW - (PROI ) PROTEINS BIOSYNTHESIS RES INST
TI - Biomass production - using growth stimulant in form of N-tris-oxy-ethyl ammonium salt of ortho-chlorophenoxy-acetic acid and specified organic product